EP 1400531

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AN 2004:247009 CAPLUS
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TI Process for the synthesis of N-[(S)-1-(ethoxycarbonyl)butyl]-(S)-alanine
  for use in preparation of perindopril
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PA Les Laboratoires Servier, Fr.
SO Eur. Pat. Appl., 9 pp.
  CODEN: EPXXDW
DT Patent
LA French
IC ICM C07K005-06
  ICS C07C227-32; C07K005-02; C07D209-42
CC 34-3 (Amino Acids, Peptides, and Proteins)
  Section cross-reference(s): 1
FAN.CNT 1
  PATENT NO.
                 KIND DATE APPLICATION NO.
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PI EP 1400531
                 A1 20040324 EP 2003-292405
                                                    20030930 <--
                  B1 20060104
  EP 1400531
    R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
      IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
  AT 315046
                 T 20060215 AT 2003-292405
                                                   20030930
  ES 2256693
                  T3 20060716 ES 2003-3292405
                                                    20030930
  WO 2005033128
                   A1 20050414 WO 2004-FR2464
                                                        20040929
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      SN, TD, TG
PRAI EP 2003-292405 A 20030930
CLASS
PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES
EP 1400531 ICM C07K005-06
         ICS C07C227-32; C07K005-02; C07D209-42
         IPCI C07K0005-00 [LC1; C07C0227-00 [LC1; C07D0209-00
            [I,C]; C07K0005-06 [I,A]; C07C0227-32 [I,A];
            C07D0209-42 [LA1: C07K0005-02 [LA1
         IPCR C07C0227-00 [I.C*]; C07C0227-32 [I.A]; C07C0229-00
            [N,C*]; C07C0229-16 [N,A]; C07K0005-00 [I,C*];
            C07K0005-02 [I,A]; C07K0005-06 [I,A]
         ECLA C07C227/32; C07K005/02H1A; C07K005/06A1H1
AT 315046
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            [ICS.7.C*1: C07D0209-42 [ICS.71: C07D0209-00
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C07K0005-02 [I,A]; C07K0005-06 [I,A]
         ECLA C07C227/32; C07K005/02H1A; C07K005/06A1H1
ES 2256693
             IPCL C07K0005-06 [ICS.4]: C07D0209-42 [ICS.4]: C07D0209-00
             [ICS.4.C*]; C07K0005-02 [ICS.4]; C07K0005-00
             [ICS,4,C*]; C07C0227-32 [ICS,4]; C07C0227-00 [ICS,4,C*]
         IPCR C07C0227-00 [I,C*]; C07C0229-00 [N,C*]; C07K0005-00
             [LC*]: C07C0227-32 [LA]: C07C0229-16 [N.A]:
             C07K0005-02 [LA]; C07K0005-06 [LA]
         ECLA C07C227/32; C07K005/02H1A; C07K005/06A1H1
WO 2005033128 IPCI C07K0005-06 [ICM,7]; C07C0227-32 [ICS,7]; C07C0227-00
             [ICS,7,C*]; C07K0005-02 [ICS,7]; C07K0005-00
             [ICS,7,C*]; C07D0209-42 [ICS,7]; C07D0209-00 [ICS,7,C*]
         IPCR C07C0227-00 [I,C*]; C07C0227-32 [I,A]; C07C0229-00
             IN.C*1; C07C0229-16 IN.A1; C07K0005-00 II.C*1;
             C07K0005-02 [I,A]; C07K0005-06 [I,A]
         ECLA C07C227/32; C07K005/02H1A; C07K005/06A1H1
OS MARPAT 140:253916
       (S)-EtO2CCHPr-L-Ala-OH was prepd. by a multistep procedure starting with allylation of Et
       glyoxylate with allylzing bromide. Subsequent steps were resoln, using Pseudomonas Fluorescens
       lipase, triflation of (R)-EtO2CCH(OH)CH2CH:CH2, substitution reaction with benzyl L-alaninate,
       and catalytic hydrogenolysis.
ST carboxybutylalanine ester prepn intermediate synthesis perindopril:
  alanine carbethoxybutyl prepn intermediate synthesis perindopril
IT 104196-82-9P, 4-Pentenoic acid, 2 hydroxy, ethyl ester, r
  RL: BPN (Biosynthetic preparation); RCT (Reactant); BIOL (Biological
  study); PREP (Preparation); RACT (Reactant or reagent)
    (process for synthesis of (carbethoxybutyl)-L-alanine in prepn. of
    perindopril)
IT 669088-66-8P 669088-67-9P
  RL: BPN (Biosynthetic preparation); RCT (Reactant); SPN (Synthetic
  preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant
  or reagent)
    (process for synthesis of (carbethoxybutyl)-L-alanine in prepn. of
    perindopril)
IT 82834-12-6P
  RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
    (process for synthesis of (carbethoxybutyl)-L-alanine in prepn. of
    perindopril)
IT 82834-16-0P, Perindopril
  RL: PNU (Preparation, unclassified); PREP (Preparation)
    (process for synthesis of (carbethoxybutyl)-L-alanine in prepn. of
    perindopril)
IT 924-44-7 17831-01-5, Benzyl L-alaninate 18925-10-5, Allylzinc bromide
  RL: RCT (Reactant); RACT (Reactant or reagent)
    (process for synthesis of (carbethoxybutyl)-L-alanine in prepn, of
    perindopril)
IT 157920-22-4P
   RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT
  (Reactant or reagent)
    (process for synthesis of (carbethoxybutyl)-L-alanine in prepn. of
    perindopril)
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
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(2) Adir; WO 0156972 A 2001 CAPLUS
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